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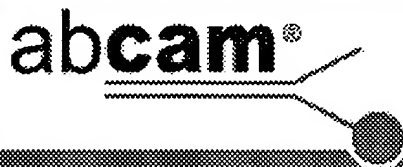
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Nestin antibody - Neural Stem Cell Marker (ab5968) datasheet

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Code Size Price

ab5968 200 µl Select country above

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Product Name

Nestin antibody - Neural Stem Cell Marker

Product type

Primary antibodies

Description

Rabbit polyclonal to Nestin - Neural Stem Cell Marker

Immunogen

Synthetic peptide derived from residues 1600 to the C-terminus of Human Nestin.
(Note: the amino acid sequence is commercially sensitive).

Cross Reactivity

Cross-reacts with Human (100%), Golden Hamster (90%), Crab eating macaque monkey (100%).
Does not cross-react with Mouse.

Not yet tested in other species.

Specificity

This antibody can be used in immunocytochemistry applications to label **neural stem** cells. It has been tested in Human embryonic stem cells, cell line and a hES cell line to detect Nestin immunoreactivity.

Tested applications

Immunofluorescence, Immunocytochemistry

Application notes (see key)

Recommended dilutions

ICC: 1/1000 - 1/2000.

IF: 1/250 - 1/500.

How to order ...

Not tested in other applications.

Optimal dilutions/concentrations should be determined by the end user

Quality is important to Abcam. If **Nestin antibody - Neural Stem Cell Marker (ab5968)** does not perform as described on this datasheet, notify us within 90 days of delivery using this form, so that we can help you or offer you a replacement or a refund.

Cellular localisation	Cytoplasmic								
Research areas	Stem Cells >> Neural Stem Cells >> Intracellular Markers Stem Cells >> Lineage Markers >> Endoderm Stem Cells >> Lineage Markers >> Ectoderm Neuroscience >> Neuronal Markers >> Neural Stem Cells Neuroscience >> Neuronal Markers >> Neuron Neuroscience >> Adhesion Proteins >> Cytoskeleton >> Intermediate Filaments								
Relevance	Nestin is a Class VI intermediate filament expressed in the developing nervous system (CNS) in early embryonic neuroepithelial stem cells. The protein has been widely used as a predominant marker for stem / progenitor cells, glioma cells, and tumor endothelial cells. Furthermore, it is a super-angiogenic marker to evaluate neovascularity of endothelial cells in tumors.								
Database links	Alternative names for Nestin antibody - Neural Stem Cell Marker (ab5968) The links below go to external sites and will open in a new browser window. <table><tr><td>Entrez Gene</td><td>10763 (Human)</td><td>Omim</td><td>600915 (Human)</td></tr><tr><td>GeneCard</td><td>GC01M153416 (Human)</td><td>SwissProt</td><td>P48681 (Human)</td></tr></table>	Entrez Gene	10763 (Human)	Omim	600915 (Human)	GeneCard	GC01M153416 (Human)	SwissProt	P48681 (Human)
Entrez Gene	10763 (Human)	Omim	600915 (Human)						
GeneCard	GC01M153416 (Human)	SwissProt	P48681 (Human)						
Raised in	Rabbit								
Clonality	Polyclonal								
Isotype	IgG								
Purity	Immunogen affinity purified								
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS. pH 7.4								
Form	Liquid								
Concentration	0.50 mg/ml								
Storage instructions	Store at +4°C short term. Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.								

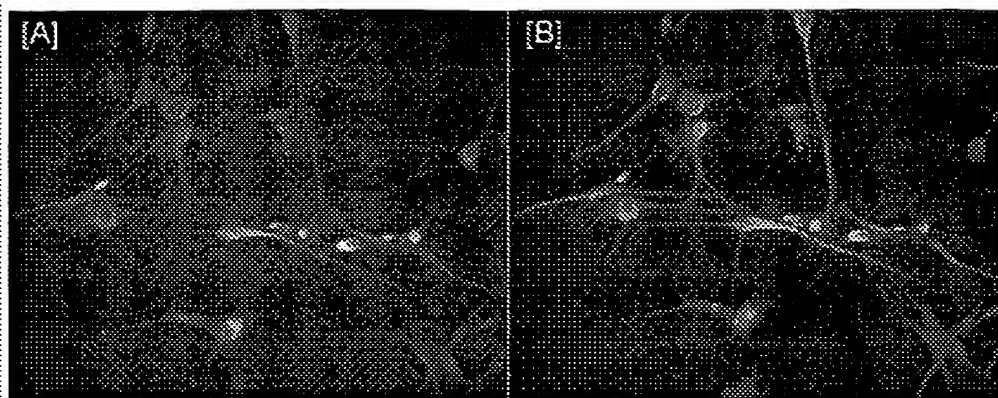
Material safety datasheet (MSDS) for this product:
Sodium Azide MSDS

At Abcam, we have one centralized database to hold all of our product information, so that everything we know about this **Nestin antibody - Neural Stem Cell Marker** is on this datasheet. But please do contact us if you would like any reassurance!

See below for **Nestin antibody - Neural Stem Cell Marker** images, references, products related

Nestin antibody - Neural Stem Cell Marker images:

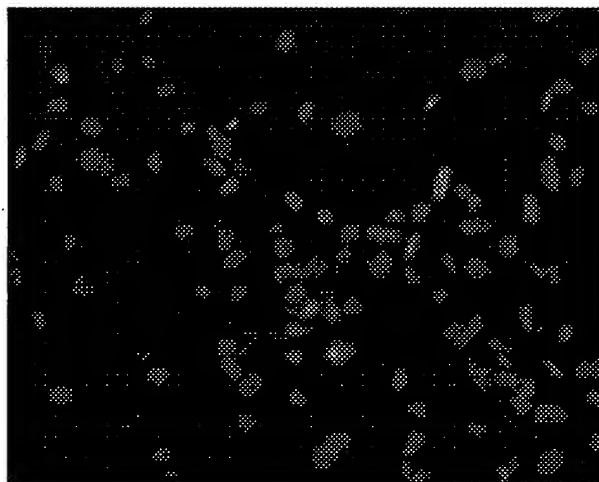
 - Nestin antibody - Neural Stem Cell Marker (ab5968)



Immunofluorescence images in a glial cell line. [A] Staining with **nestin** antibody at 1/250 (ab5968; mostly seen around the cell bodies and in the short processes) followed by an anti-rabbit AlexaFluor 488 secondary antibody. [B] Merged staining of **nestin** (ab5968) at 1/250 with vimentin. The nuclei are stained with Hoescht chromatin dye. NB: these images were captured with black & white film and recoloured in photoshop ([B]).

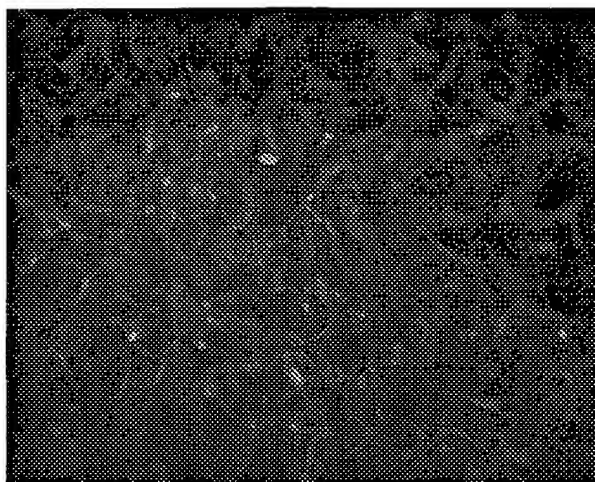
Image courtesy of Pam Tyers and Roger Barker (Brain Repair Centre, Cambridge, UK)

I Immunocytochemistry - Nestin antibody - Neural Stem Cell Marker (ab5968)



ab5968 detecting **Nestin** immunoreactivity in hES cell line WT3 following overnight incubation at 4 degrees C with ab5868 **Nestin** rabbit polyclonal antibody (1/1000). Cells were fixed using 4% paraformaldehyde and permeabilised with 0.2% triton X. The secondary was an Alexaflour 546 (green colour). Image taken with a x20 objective.

Dan Webber, CARD Institute, KCL, London

I Immunocytochemistry - Nestin antibody - Neural Stem Cell Marker (ab5968)

ab5968 detecting Nestin immunoreactivity in human embryonic stem cells differentiated in conditions promoting neuronal differentiation. Nestin immunoreactivity observed following incubation of ab5968 Nestin antibody with hES cells at room temperature (1/200).

Dr Ludovic Vallier, CIMR, Univ. Cambridge, UK

References for Nestin antibody - Neural Stem Cell Marker (ab5968)**General / background references:**

Bauer S *et al.* In vivo neurogenesis in the dorsal vagal complex of the adult rat brainstem. *Neuroscience* 115:111-21 (2004). PubMed: 15561426

Singh SK *et al.* Cancer stem cells in nervous system tumors. *Oncogene* 23:7267-73 (2004). PubMed: 15561426

Paris M *et al.* Review: pancreatic beta-cell neogenesis revisited. *Exp Diabetes Res* 5:111-21 (2004). PubMed: 15561426

Xu H *et al.* Neural precursor cells differentiated from mouse embryonic stem cells relieve synaptic transmission defects in a rat model of Parkinson's disease. *Biochem Biophys Res Commun* 326:115-22 (2004). PubMed: 15561426

If you publish research using ab5968 please let us know so that we can cite the reference on our website.

Search PubMed (MEDLINE) for references to Nestin

Nestin antibody - Neural Stem Cell Marker - more information

Customer reviews (feedback) regarding Nestin antibody - Neural Stem Cell Marker

Customer enquiries (FAQ's) regarding Nestin antibody - Neural Stem Cell Marker

Protocols for **Nestin antibody - Neural Stem Cell Marker**

Price and availability of products related to **Nestin antibody - Neural Stem Cell Marker**

Nestin antibody - Neural Stem Cell Marker - related products:

Products for Immunocytochemistry

Subcellular Markers

Products for Immunofluorescence

Subcellular Markers

Compatible Secondaries for Nestin antibody - Neural Stem Cell Marker

ab2892 Goat polyclonal to mouse (AP) + rabbit (HRP) IgG double stain - predil

ab6564 Goat polyclonal to Rabbit IgG H&L (Cy5)

ab6717 Goat polyclonal to Rabbit IgG H&L (FITC)

ab6720 Goat polyclonal to Rabbit IgG H&L (biotin)

ab6721 Goat polyclonal to Rabbit IgG H&L (HRP)

ab6722 Goat polyclonal to Rabbit IgG (alkaline phosphatase)

ab6793 Sheep polyclonal to Rabbit IgG H&L (Texas Red)

ab7007 Donkey polyclonal to Rabbit IgG (PE)

ab7019 Goat polyclonal to Rabbit IgG H&L (agarose)

Nestin antibody - Neural Stem Cell Marker - other tools:

Contact Abcam with a Technical Enquiry about **Nestin antibody - Neural Stem Cell Marker**

Search PubMed (MEDLINE) for references to **Nestin**

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